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PTO/SB/121 (10-00)

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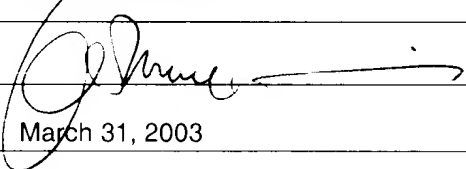
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Request for Customer Number (PTO/SB/125) submitted herewith.

in the following listed application(s) or patent(s):

Patent Number (if appropriate)	Application Number	Patent Date (if appropriate)	U.S. Filing Date
	09/859,518		May 18, 2001

Typed or Printed Name	Leonard C. Mitchard	(check one) <input type="checkbox"/> Applicant or Patentee <input type="checkbox"/> Assignee of record of the entire interest. Statement under 37 C.F.R. § 3.73(b) is enclosed. (Form PTO/SB/96) <input checked="" type="checkbox"/> Attorney or Agent of record 29,009 (Reg. No.)
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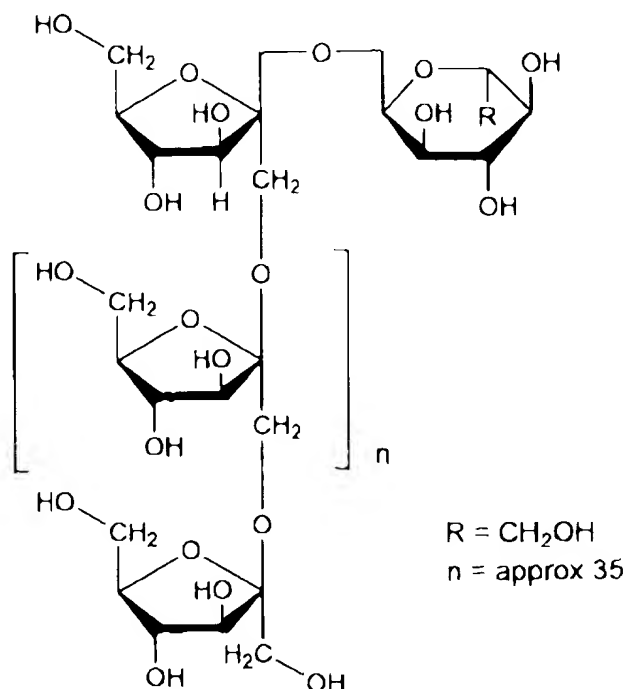
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5024. Inulin.

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Dahlin, alantuin; alant starch. Mol wt approx 5000 Polysaccharide of *Compositae* which partially or completely replaces starch as a reserve food. Isolin from dahlia tubers: McDonald, "Polyfructosans and Difructose Anhydrides" in *Advan. Carbohydr Chem* vol. 2, 254 (1946); from Jerusalem artichoke tubers. Bacon, Edelman, *Biochem J* 48, 114 (1951) Structure: E. G V Perival, *Structural Carbohydrate Chemistry* (J. Garnet Miller, London, 2nd ed., 1962) p 274

Spherical crystals from water. Hygroscopic in moist air. $[\alpha]_D^{20} -40^\circ$ (c = 2) for the anhydr. Sol in hot water; slightly sol in cold water and organic solvents. Yields D-fructose and D-glucose upon acid hydrolysis.

Acetate, fine powder from methanol. $[\alpha]_D^{20} -34^\circ$ (c = 1.5 in chloroform); $[\alpha]_D^{20} -43^\circ$ (c = 1.8 in acetic acid).

Trimethylinulin, powder from hot water + acetone, mp 140°. $[\alpha]_D^{20} -55^\circ$ (c = 1.03 in chloroform), $[\alpha]_D^{20} -54^\circ$ (c = 1.09 in benzene)

(HERAP CAT: Diagnostic aid (renal function).